

## EAST Search History

|     |     |  |   |    |     |                  |
|-----|-----|--|---|----|-----|------------------|
| S79 | 185 | ((dsb or (double adj2 sideband)) same (reference adj2 signal))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/02/06 19:14 |
| S80 | 10  | S79 and ((reference adj2 signal) near3 polarity)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/02/06 19:14 |
| S81 | 0   | ((dsb or (double adj2 sideband)) adj2 frequency) near3 ((oscillator or (reference adj2 signal)) adj2 frequency)        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/02/06 19:20 |
| S82 | 7   | ((dsb or (double adj2 sideband)) adj2 frequency) same ((oscillator or (reference adj2 signal)) adj2 frequency)         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/06/12 18:13 |
| S83 | 1   | S82 and ((revers\$3 or switch or chang\$3) near3 polarity)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/02/06 19:22 |
| S84 | 2   | S82 and polarity   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/02/06 19:22 |
| S85 | 28  | ((reverse or switch\$3) adj2 polarity) near3 (reference adj2 signal)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/06/12 18:13 |
| S86 | 2   | "5150121".pn.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/06/12 18:10 |
| S87 | 0   | S85 and ((dsb or (double adj2 sideband)) adj2 frequency) same ((oscillator or (reference adj2 signal)) adj2 frequency) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/06/12 18:14 |
| S88 | 52  | ((reverse\$3 or switch\$3) adj2 polarity) near3 (reference adj2 signal)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/06/12 18:14 |

## EAST Search History

|     |      |  |   |    |     |                  |
|-----|------|--|---|----|-----|------------------|
| S89 | 63   | ((revers\$3 or switch\$3) adj2 polarity) near3 (reference adj2 signal)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/06/12 18:14 |
| S90 | 0    | S89 and ((dsb or (double adj2 sideband)) adj2 frequency) same ((oscillator or (reference adj2 signal)) adj2 frequency) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/06/12 18:14 |
| S91 | 7    | ((dsb or (double adj2 sideband)) adj2 frequency) same ((oscillator or (reference adj2 signal)) adj2 frequency)         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/06/12 18:14 |
| S92 | 1065 | (polarity) near3 (reference adj2 signal)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/06/12 18:14 |
| S93 | 0    | S91 and ((polarity) near3 (reference adj2 signal))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/06/12 18:14 |

## EAST Search History

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| L1    | 47   | ((reverse or choos\$3 or chang\$3) adj2 polarity) near3 (reference adj2 signal) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/06/13 10:34 |
| L2    | 1    | 1 and (dsb or (double adj2 sideband))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/06/13 11:15 |
| L3    | 0    | 2 and oscillat\$3 and (quadrature or "in-phase")                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/06/13 10:37 |
| L4    | 0    | "5303058".pn. and (noise or gaussian or distribution)                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/06/13 11:16 |
| L5    | 0    | "5303058".pn. and (spect\$4)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/06/13 11:16 |
| L6    | 0    | "5303058".pn. and (spectrum)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/06/13 11:19 |
| L7    | 0    | "5303058".pn. and (intensity)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/06/13 11:40 |
| L8    | 42   | mean adj2 spectral adj2 density   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/06/13 11:19 |
| L9    | 0    | "5303058".pn. and (speck)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/06/13 11:38 |

## EAST Search History

|     |     |   |   |    |     |                  |
|-----|-----|---|---|----|-----|------------------|
| L10 | 0   | "5303058".pn. and (speech)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/06/13 11:38 |
| L11 | 1   | "5303058".pn. and (high\$3 or maximum)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/06/13 11:40 |
| S1  | 0   | (wong-hee.in. ju-shu-ing.in.) and (dsb or (double adj2 sideband))                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/19 14:27 |
| S2  | 18  | 375/324.ccls. and (dsb or (double adj2 sideband))                                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/19 11:39 |
| S3  | 2   | S2 and (quadrature and (in adj2 phase)) and oscillator and reverse                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/19 11:14 |
| S4  | 0   | 375/324.ccls. and ((local adj2 oscillator) near3 (dsb or (double adj2 sideband))) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/19 11:39 |
| S5  | 12  | ((local adj2 oscillator) near3 (dsb or (double adj2 sideband)))                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/02/06 17:25 |
| S6  | 434 | 375/141-324.ccls. and (dsb or (double adj2 sideband))                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/19 14:27 |
| S7  | 5   | S6 and ((local adj2 oscillator) near3 (dsb or (double adj2 sideband)))            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/19 14:35 |
| S8  | 0   | S7 and (((reverse or choos\$3) adj2 polarity) near dsb)                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/08/19 14:32 |